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REGIONAL SCALE EVANOTRANSPIRATION ESTIMATION USING VEGETATION INDEX AND SURFACE TEMPERATURE FROM NOAA SATULUTE AVERE BATA

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$$\beta = \frac{C_i k_i p_i - Q_i}{C_i C_i k_i p_i} \qquad (24)$$

$$\beta = \gamma \left[\frac{T_1 - T_2}{p_1 - p_2} \right]$$
 (2.1)

where a confine solid the conference course

$$\gamma = \frac{C_p R_{q,P}}{0.000 \text{ k.R}_p}$$
(3.1)

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where $q_i^{-1}C(T_i^i)$ is the corresponding intensitive rapper presents of an integration T_{ij} and $q_i^{-1}C(T_i^i)$ in the rapper presents at the sent number. Since $q_i^{-1}q_i^i$ for a measured method, the flower correspond of

$$\hat{p} = \frac{\gamma}{\hbar} \left[\frac{r_1^{-1} r_2}{r_1 r_2} \right] \qquad (2.12)$$

Substitutes of Equation 3.11 in Experien 3.6 years

$$\theta_{\alpha} \in \left(1 \circ \frac{\pi}{\Delta}\right) \times \cdot \frac{\pi}{\Delta} \left(\frac{e_{\alpha} \circ e_{\alpha}}{\theta_{\alpha} \circ e_{\alpha}}\right) \times$$

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$$[a_i = b_j] = \left(\frac{c_i}{c_i + c_j}\right)(a_i^* - a_j)$$
 (2.10)

where a_i is the second insper persons in the siz, c_i is the different reconstruct of an Injer, and c_i the element extension. Using this requirem, consist of Equation 2.22 and all Economists, and substituting size Equation 2.34 one obtains

$$LS = \frac{A_{c}}{A_{c}r^{2}}R_{c} \exp \frac{\partial R_{c}}{A_{c}r^{2}}\left|\frac{R_{c}^{2} - I_{c}}{I_{c}}\right| \qquad (2.18)$$

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The only size factor is a devel measurement of most treative that expose complex estimates and well have prevent to obtain account model (Times et al., 1982). The most vertical than of water report local on the othy line theory, or wellow are:

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The ET has population up on a symbol again and again and shall as the fill and formation and the state and the sta

2.1.1 Ecoposymposion Station in France

le Finnie, de merenty control control and ET has been well assignment. (Firmulal and Police, 1984, Songrein et al., 1984). Sontrole control assemble systems. police per der pad delly servega ET is entenant in his shoul H118 filles gallous with the set heigh de higher in sendrem motional Franch and Lewer so the Kipps and softening Franch (Genella of Bernalla of H118 filles (1994), 1994 (1994), 1

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12 Septic States Enforcement Combine

2.2 1 Epid Sportsonium to

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manage manage are contacted in higher plants, earnely, chierwised in, distracted in can be sed analysis of all of which short works help for elemental as The long, same with below the upper synforms are the polysole odly. They contain many objects betty with objects of a greater that about more blue and red byte for phremotheur and efficiently reflect area halo. The delevatived alreading forcing an to professed which are a settle, of absorptions for these strange major absorption bounds about account



Figure 2.1. Spectral reflectment interest of vegetories, and and vater to the mobile, some orband and mobile advant parties of EM culturies (objeted from Lithroand and Kinder (1927).

dat outer less norollegiste il 699 per sell 1 per (Crese, 1980). Talle 3.1 divensible ed accessing between endirequated edificacione and vegitatione senandi for three monitoriale as definant for Talletin and Microsoft (1970) for a paren compy. These policeomologic provide inflations for the demotion of vegetation access for provide inflations for the demotion of vegetation access for provide inflations.

The regions were small and below to one of any process and section of the section





at walks and near IR wavelengths (objeted from Avery and Barlos, 198)

Table 2.1 The multispectral reflectance and vagations elsewore income and that

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Parand 200-140 aug	Transition Infrares, storag absorption, and storag sufficience	Sink superor	
New selected 190,500 cm	High vegetation refusioner	Strong positive	

Ampert from I substant Morwell, I

Spitial arbitries are not finguistic met do be used for mity axis decided. When I shalling plate increase intensity is stort type of store at an endowere of large cover at the operated currier. These consens actuals an increase and profession, preference from the story was consens actually actions, and depresents and profession from the consenses and consenses and professions are professional actually actually actually actually decided as a superior of a plate to first at progression from a housing value decouple difference agrees of disease.

2.2.1.7 Spectral resources of soil and we

Could (FFW but closeful 160 to 2 swepter from 36 states are three green) the specimes (Figure 2-6). Type I carros have reduction and recognitive highly 1.0 pm. Type 2 serves are classificated by a protectly dissenting slope to about 0.6 pm. delicated by a slight dip from 0.5 in 8.7 µm with a continued discussing sleps beyond 0.75 µm. The number is a typical convex shape from the vanishing to beyond 1.6 µm. Those have a slightly decreasing steep slope to about 0.6 $\,\mu m$ followed by a slight dip flows 0.62 $\,$ Stoon or have a a but my solds construct with assertable: 13 bit moderalely high true control. Comini was able to expression those curves with a high most types of still softwares curves exceler to type 2 by extinding the determine to 1.2 contact and region makes it betype 3, the seguine slope from \$75 to \$3 pm resulted. Does very high non-soil less segment concentrations. This was the only type that did not





Sanital state freesign different steps of demage (from Norths, 1976)





Figure 2.6 Exposed not enthroloses community: Ever major types of surveys. Types 3: were propried by Coulds (USTS) and types 4 and 5 by Senser and Berenguelanc (1984). Although reflections on all quested regions a sequency visionized will original, presented 57 per symination profile for moviment agents insteam when will allow as it for all farms and referrablement are and althoughout resemble consumeration at \$7.09, and \$6.50 to 50 to several Bir disressiph classification of background and deficience. Althoughout all 0.7 and \$9.50 to supershall by first cons-

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Figure 2.5 Variety generally for the bidewished in Endance managements or the field-inventorinal if and if service for an invelocal metals region, leaved as the velocal place of, and its resident and reflected council angles, leaved in the forecomplete.

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2224 Transformed resources units (TOT

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$$TF = \sqrt{\left(\frac{M-2}{M-2}\right) + 0.5}$$
(2.3)

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$$H = \int_{0}^{\infty} \kappa |\theta_{0}| d\lambda = \int_{0}^{\infty} \frac{2\pi \kappa k \kappa^{2}}{\kappa^{2}} \left[\exp\left(\frac{\lambda k}{M_{0}^{2}}\right) - 1 \right]^{2} d\lambda$$

$$= \sin^{2}\theta.$$
(2.30)

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Plath's factors $g_{\mu\nu}$ which merely depends on temperature Y. After integrating Equation 2.21 when the absorption path between the surface and the top of the atmosphery well topological alphasis depth $\chi_{ij}^{(1)}$ we obtain the specimal subseque, emerging at the top of the atmosphere.

where %, is the option! Michigan of the attorophism slong path a

$$_{1} = \int_{0}^{\infty} d_{x} \rho_{x,y} dx$$
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military. For indicate, in resource on surface presentate the editoristics surface deliberated absorption or one observed (Chedic et al., 1982). The estimation of any analysis terminative was a communities and the classed accuraces are usually as the same of A VIII in a Name 1903, Olymp 1989. However, the words one set he describe stelling \$1000. Community of the local surface on difficult to define and or assembly rwat of land over any even within the accolution of our minitie good which and/or the scurate proved truly verification for scriptor deposed multiple appropriate. Beautiful, for minute, may very by so-cert degrees over degrees or fees of society (Vessells et al. 1962) and temperature remains between competitud follow areas can be greatly drawns: Despite the definalises resistances, scientists have been assumingly consideral for algorithms in critical confuse improving them satellise data.

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for the supported extended from each washing closured in which on the individual of the individual scale in Signature (Signature 2.31) and the lowers of Parkit's feature (Signature 2.37). For the old-the braining, for closuring ground an exception washing to the state of the scale of the s

The equition represents an aggregated reference of the assumptions offices as the solution of administratory countries and expression that the solution shapeset solution.

For typical surface temperature respect p. 270 in 200 degree Robrick, Obert (1995) pointed out that the Flank equations and on soverer are possity from an desired without workington. Community, the arbitrophy between the authors related temperature 2, and seatilize observed freightness trappeters 27, can be expressed as

 $T_c = a^2 T_0 + b^2$ (2.26)

$$10(7)^{64} - 1(7)^{14}$$
 (2.50)

$$\xi = \frac{T_c}{e^{Q}}$$
 (6.2)

Prior (1902) Surface Investigated and produced of each Equation 3.18 for $\sigma = \int SS \cdot K |_{S=V-N}$.

$$\left(\frac{55-4}{43}\right)$$
 (67) (5.36)

Single (1997) regard that the presence or the Barbon Releasement gas relation and supervised signal-and and the 4 Salt-power reportion with leaf to nignificant enter as lowreadministent. Sin-regarded that the marker knowled transportation, T_a may desire description the automatic of Silvid Const.

$$\int_{-inp(\frac{C_i h}{T_g}-1)}^{inp(\frac{C_i h}{T_g}-1)} dA \int_{-inp(\frac{C_i h}{T_g}-1)}^{inp(\frac{C_i h}{T_g}-1)} (2.3)$$

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The different interess specifical 218 and 26, knowers, in less than earl degree K. for most cannot underso with medicinity protect that 155. For plant in regional section Languages are produced by the Confederable Confederable Popularia, 250, by professed, (Governo, For consiste produced specified producing the first offer or from surface, the Society or specifics (Educated 246) or the grid variables continuous.

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 $T_i = a_1 + a_1T_1 + a_2T_2$ (2)

Vaccounselector (Simple 1995, McClass et al., 1995, Silo et al., 1995, Starter et al., 1995) have been proposed in circum the enablement a_1, a_2, b_3 . Several spice starters formed which give the norther entires temperature T_1 on allower consideration of temperature T_2 on allower consideration of temperature are represented as T_2 and T_3 are administrated by the contract of the T_3 and T_4 and T_4 are administrated in T_4 .

Table 2.3 Split weather funnals for nuclear radical temperature extraols

Splin Winter Squatons	Belwaren
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$T_{\nu} = T_{\nu} + 5.12 (T_{\nu} + T_{\nu}) + 0.45$	McClaim of all (1983)
$T_{ij}=T_{ij}+0.30q(T_{ij}+T_{ij})$	Proc (7994)
T,-T,-DARKT,-T,1048	Li and McDessart (1998)
T, -T/159(T/T)+040(T/1050	Year (1995)

The sold vision to things or over and operationally over course with a silatent entering of BETC (Mort Ed., 1995). This is always a sensitive groups (b) become from a may life (Billianus Balancan on and one properties and operation to the lattice and because the removery of the sen or excell year and a contract cour large above. Showever the movement of an excell year and a contract cours large above. Showever the movement of refer to excell year and operations and investigate above. mather encourage, which, a grantely lower than auty, and pool for allow the nature of class. It is approximated for the first property of the control of the first property of the control of the first property of the definition one remain to enter on the control of the first property of the definition one remain to error that would be "Si.". Entitle (1655) the property of the definition of the decrementary, and is, to the rest observed long procedured as the control of the comply of the comply of the control of the long of the control of the long of the

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$$T_{c} : A_{c} \sim P\left[\frac{T_{c} \circ T_{c}}{2}\right] + M\left[\frac{T_{c} \circ T_{c}}{2}\right]$$
(2.43)

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- P = 1+9.15618(1+0/c-0-682
- Mary Christians constitute

where $a=(x_1,x_2)/2$ and $A=(x_1,x_2)/2$, $(x_1,x_2)/2$, $(x_2,x_3)/2$, corresponding to surface excessions of channel 4 and channel 5 of NOA, A=(X)/2 (SEECE)

Standbille, Schleier vol. (1974), by instructions of the Throck's requires and Standbille instructions, derived a spid worker requires where setflicents depend on simulpative water vapor, versifier regide, and detected method extraction. The considered feet on order to get as set as level of 15 Co. had reduce anapassase, it as 30000005 for the statistically intercurrented with an assuming of 10 CO.

to explainent, streety between the channel-dependent assual-ordin and difficult to assuares.

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2.5.2 Bisself feet Florest Related Introduction

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the elsew of services on. The equation has become the subject of many subsequent Dalas Color of Fulls, 1995 Certin, et al., 1993 Leanante, 1995 Newsonkein et al., 765, Sandal et al., 1955, Servic and Iver 1965, Vold and Revoy 1965. These the confidence A and D. The advantage of the appearant flowers 1440 or or complete. to extraorie ET over the Alicebra sub-Austra Thursdoorn and Naturembers (1990) used Annimate and of the country or Velid and Persier () 990), developed a method to susp the cordina temperature deserdeemed ER data using that from the NOAA TEXAS modifies and so may be ET of et al., 1983, 1984, Regrestrer et al., 1985, Sundoy 1987)

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 $t = \exp \left[-\frac{4T_0 \cdot T_0 \lambda}{T_0 \cdot T_0 (\lambda_1 \cdot \lambda_2)} \right]$ (3.48)

where a is constant O(a - 1) CE $a = 20^{10}$ m E_0 , and T_{ab} and T_{ab} the polarist between the exercised wavelength, of E_0 and E_0 properties by

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where T , is the hierarchise of the real and λ_i in the thermal anniholously of the rest. Ω is best flux to set soler reduction or about 0.5 for day took and 0.3 for test condition. For common services upday full areast Mexicals (1977) suggested values for the order

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2.3.3 Emperation and Vegotings lodes Math

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Architect of tol moutes and vigozona area. Salanagge and Beder (1991) also

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2 4 Note Countrains in Report Season

2.4 | Special Temporal and Second Stokes

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2 6.2 October Special Employing for Propose Second Chair

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Table 2.4 Spelist, inspend and spectral overage or Landau, SPOT, QGES and SOAA smillow

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appropriate total for a justicular application. There technic the automatics desired also the protest states, the embrus works to be used to extract the subcreases and, the special streamen of the source and? (Woodsook and Studder, 1967).

2.4.3 Methods of Decommany Options 8

Modificing and Tribles (1992) said a propropher resource method the home-based different breaks of excurrence units. Worshood and Norther 17927, developed a resource created and the mean of these values over the entire strate or being an action on an authorise of the load webblies of the energy. Netter and Direct (1985) and a statum also either to contract in the landomer and. All the shops processive parameter band real-secof the encountry data changes with your and produces and data data and a comment

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$$SR_{ac} = \frac{Rad_{ac}}{Rad_{ac}} \times 100\%$$
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1.2 Morphisel special companies

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Pigert 5.3 Special regional curve for NDAA-14 AVMSK shared 1 (alapsed the Kolesti, 1991)



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Figure 3.5

Special sequence curve for NOAA-14 AVVSEX classed 3 (subgrant the

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Figure 3.6 Species requires sever for NOAA-14 AVISSE classed 4 Julight fine Subset [1997]





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Space 3.7 Species representative for NSAA-14 ANNEX statused 5 (adapted three Kolleys), 1991.)

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alreads are often annuable as the ordinative special range (Price, 1996). Clouds in the producing a rigarificant difference or monopol brackers transcentare between the two heads which is accountly much equals than the difference recording atmosphere. Intercentage differency detected in 3.7 and 12 am thought and hand 5 of AVMER dust. If the brightness temperature difference (T_{α},T_{α}) in preservings SYC, then the peak was the EDFT cross was discornable using the workle bond 1 to experience; the cloud

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The assemption's convenient without an operature in the second audious perspectures indy when the removing is equal in 1.0. The most suchers, where the reminering in and equal to 1.6, is further education to the development. Executely, subjectiones were enthroped upon the finished intercognism education as follows:

Table 3.6 Water temperature stations used in coldentine of self-fire method temperature.

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L005+T0	GLA	Lake Okescholer Tower West (95)	293734	105530
07+100.1	PAL	Lake Objectobes Tower South (HI)	264520	80487
1240-77	FAL	L282 Washer Station on Liste Olive	265405	90472

Dismoving relative were concept to be such Thresh field value has been shaded. Defined an insurem fielding with Offices, 1905, Lifetim and on Greeke, 1906, Seen, 1996; George, 1969). The animalized relation of Electric Dismoving contents and on notificat temperature application was Market in 1966, 3.7. Howevers have dismoved pulsar from shared ordinary dismoving removarisation for the first pass on revenigns and fivey and close to their through a removarisation for the first pass on revenigns and fivey are close to the arrange aren't had notices existency value of \$1.95.

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$$(x - y_i) \cdot a_i \cdot a_{i-1}^{\alpha_i} a_{i-1}^{\alpha_i} \cdot a_i \cdot \frac{\mu_i p_{i-1}^{\alpha_i}}{2}$$
 (10)

where TE is been been flore on a

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 - s nation reference and from
 - - Belleman contact (1-67 x 16-8 V at ² K ⁴);
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If the to see 10% Equation 1.1) that the latent best flort deposits on a number of

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$$E_{al} - ET_{a} - A + BU, T_{cl}$$
 (3.10)

where E_{ab} ST_{a} are re-energy unit (W \otimes ').

T_a, T_a to temperature and (*C), and

 $\mathcal{A}(\mathbb{W}\,n^3)$ and $\mathcal{X}(\mathbb{W}\,n^{1.3}\mathbb{C}^3)$ are expected

Theoretical perification for Equation 3.12 can be found by affective in the methor many biblions integrated were someting period. The Orndor or price is Expense 3.11 can be emploised even a 54-boar period. The Orndor at 2 can interrup of the content of the deep sentence of accordate board from the sentence of the content of the deep sentence of accordate board from the sentence received of 2-2 is a data at ACTY for the resting. A constigut or disMeasures, the constants d and θ very west broadless. As known at d, (SSTI) obtained d = 0 and $\theta = 0$ OA for the Process, AZ was, while Sugars and later (1905) obtained A = 1 and B = 9.25 for the sees of La Casa, France

red-old-from. Are temperature and and profession visited at the school regions were and to forming the and using the SLEPEZ solitons (Subtra Bollows, Inc., Online, as well as adultion-derived surface temperature company, were than amounted and asregistered into the ETATE party according information system (Technology 1997) for Solar solutions. Pulseted ET in the 34 greent recover was substant based on the makified Personal combination equation (America et al., 1990) and seared in the QES destines to post coverage. It should be rured that both we temperature and set patronous

The relativistics of the difference between are relative and personal KT, $D_{\rm e}$ gT and the $(F_1 F_2)$ relative in Equation 3.12 was analyzed using a repression industries while the first first 54 ground statute. The enablashed relations needs dues used to

orienter CT velors et sil grif pour uniquerles suspenses, ar teoperans, auf aux referies.

3.47 Belationship of Virginities Index and Surface Temporature

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Piper 3.9 The hypothetical triangle slope that would must from the asiatons herwise superassis soles and discrete temporalises delibered.

The new here present size correspond to the water consect of the surface. That as the last the high florwed contact of water embedded which should heigh resource of pole energy work laste inseprentiant element. The lower right context of the NSFA-DOTY straight, water laste interpretation element. The lower right context of the NSFA-DOTY straight, water laste water under standard and high surface temperature, in the location of day and laste eneme.

1.62.1 NOVLEKTV manufacture Scici menunganan

The NOPO-CHETY touspin consept was reduced using the first assurances within mileculars and number compensate. So carel ground covers, middling authols, encourae surface, day and, was not again; calchaige value with 10th regarded a cover, mater with 19th regarded evens, and venter mads 19th regarded covers were assurance.

uma granum nen centrare tra (1914-1917) ir tiligar i estimatulia. Profes sinder trappate tra van situation sent per sinderstant van historia trappate trappa

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The NTA'S DETV energic extremely down NTAALANYSE, was verified by plaining the matergrant of NTA's and DETV for reven every less over tops in reads

Florids. The land cover open red the landscore of each type until is the scalings on are bred or Table J.R. Leonises of the land cover were related from the classified Landscore. This stage of the Florida Land Cover (Florida Gases and Front Water First Conversion, state).

Table 3.8 — The even lead over types and invarints of choses and in the sortingnum

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Agradian	grass land and agriculture	regressor Selds in DAA
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LWsen.	leaves and ortion boot.	when contact at Milansi

143 TT Sciences from MISSISSING Towns

If the is distincted by the prescription of pursuits interestinged and soften laborategoic pursuits as who delanced from ground merces and their values, presently as he interprised to also include constructions. On the other laborated which presents are difficult to manuse and laborate and as and be interpreted in other than more different indicates may be inspected photographic also other than more different indicates may be inspected photographic also and be interpreted for other than more different indicates may be inspected photographic allowage and other than more different indicates may be inspected in the contract of the other than more different indicates may be inspected in the contract of the other than the contract of the contract of the contract of the other than the contract of the other than the contract of th Negation description of all contract contracts on the design studies presented in MACE Tenn. Pressure description is some description of the design of water upon the design of the studies of the completes recovery which is exclused to the own or so that of the design of the design of the design of the studies of the design of the studies and the design of the design of

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$$\Gamma_i = w_1 \cdot \Sigma_i + w_2 \cdot \Sigma_i + w_3 \cdot \Sigma_i$$
 (5.19)

$$ASP_{i_{i}}^{*}=w_{i}ASP_{i_{i}}^{*}+w_{i}MSP_{i_{i}}^{*}+w_{i}MSP_{i_{i}}^{*}$$

where w_i, w_j, and w_i are weighting factors accompositing to the vegetation, most parts dry mill, translated v

$$T_{c,a_0} = w_c T_{c,a_0} = w_c T_{a,a_0} + w_c T_{c,a_0}$$
 (3.)

$$10.17_1 = v_1.0217_1 + v_2.0277_2 + v_3.0277_3$$
 (1.17)
Combining Equations (1.14) and (1.17), adding the third opinion, $w_1 + w_2 + w_3 + w_4 = 1$, and dissing T in EditY and V to NEW1, the receiving factors can be arised as

 $v_1 = \frac{(W_1 - V_1) + V_2 + V_2 + V_3 + V_4 - V_4}{(W_1 - V_2) + V_3 + V_4 + V_4 + V_4}$ (3.14) $v_2 = \frac{(W_1 - V_2) + V_3 + V_4 + V_4 - V_4}{(W_1 - V_3) + V_3 + V_4 + V_4 + V_4}$ (3.24) $v_3 = \frac{(W_1 - V_3) + V_3 + V_4 + V_4 - V_4}{(W_1 - V_3) + V_4 + V_4 + V_4 + V_4}$ (3.24)

The extensions of the waighting factors depend on the expension under and and perfect responsions returning of the force preserving to the provides care.

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VMC(BBY,ABY) = u, VMC(explains) + u, VMC(explains)+ u, VMC(dy lead (12)).

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Figure 3.19 Editionality of organizaria and mentions coefficient (VMC) from the time somer position organization, not lead, and day lead) of the NOVE-DESTV infear in

of by less? The VMC for the equations, we thank and by lead on branch X Table 1.9 Monthly VMC of equations or determined by the sale of equations EX any extended by BMS and Greeke 1.9 Min and some still 1.0 MeV. VMC are trained was around a value of 2.0 MeV in the sale of 2.0 MeV. The determined was the presented 2.0 MeV. And 2.0 MeV. The determined 2.0 MeV is the 2.0 MeV. The determined 2.0 MeV. The sale of 2.0 MeV. The sale of

Table 3.9 Vagatation Mainton Creditorna (YMC) for rapreshare, wet land and a land combiners as reads Floreis.

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City and Seresh of regresse does this and Guada (1982) and Junes et al. (1984) assessed well lend random ET alone to ET, assessed do logical station ET much species have ET.

Postate ET in how seem challed in the automotive point presenters from the ground entering and interpolated to 15 close to reconfit Error. The potential ET can be interpolated double from the Charles of the monocological data which we reconstituted bett deplaced on white endough and ET william was recopied or the most all multiplying presented ET by for 1920 Annual Sam seated for their contact of multiplying presented ET by for 1920 Annual Sam seated for their seaters. _____

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4.4. Carrenator Information Section

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351 Youfenine,with Tradmont KT Methods

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Table 3.38 — Load cover type and the annuard cosp coefficient for each weather states.

Station Name	Euring	Northing	Cieff	Land Une Cores Type ²
MILLION.	134.671	3.045.208	6.79	Constant Annahus
TI-FIEL				Gross and Auroritisms
	481,706			
BITT	544,395	2,789.694	8 90	Magnine Swarp
X398 F8	455,116			
E 000	521,067	2,955.733	1.00	Open Water
8.005				
NC6427	635,285	2 943,863	9.70	Grass and Agriculture
LINEON	423.606		9.65	
L248				
MARTINAT	570 045	3,013,138	0.60	
MIND	590,346	2,751,600	0.55	Creeni Set Monte
81 40 SFW				
SHW	443 426	3,726.259	0.70	Ores and Agroulture
MSC				
\$78W	468,871	2,963,009	0.70	Gran and Agriculture
STAT	570,716	3,942,413	0.90	Strate Swager
TAMOTERS	517,549			
VERD 6W	555,275			

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⁷ Bed severer type from Finds Land Cover (Finals Gazes and Feeds Wase Commonos, 1995)



Rights 3.1.1 Beneality of the South Florida White Management Shorter study area and investor of the ground monocological mission:

The experiment into wore honder in the upper 56 John's new house 28 miles were of Year Shauks and 15 miles and of Yanker punction we highway 66 (Figure 5.12). This is a first water match seas when casted Copins alweinproved and warpens (Colladora punctionard) we the document experiment. The exec and earth rath of the mase

at time mands environments. These lycomology were contained as the grants area. To member the arread ET and vocations coveral, the hypothesis was an extended ET from a large bosoperous most seen. The typeston was caralled within much seen with the registron, monerological condition and first hong the mass as suscending regulation. Lympole I (RP 4) IP W | 275450" N) booked in a collection of the latter to removeding events. Letter for $T_i(W^i(t)) \neq W_i, 27^i 37^j 23^i N_i^i$ was an open water said rethost say regations. Figure 3.13 shows the surgeon by weeker and the nationals water level gauge and noise panel contailed in the Fort Days march. The bulleagues wasstored or CR19 flats loggers (Completh Scientific, Inc.) and could be manually

ET of the lympotens was compared by the water believes equation expected as:

ET, * S + I + O + A (3.20)

where XI, r evaporous persons for given pared to

A - rainful (mer).

and the same and the same

- D. - D., change in water level in lystowine for period ((mm)

A weather retries non-sected of between b_j consists 2 and 3 to describe the materialistic plane where the month. Some relations, not audients, phonographistic photon flow-french, no temperature, and new Yorks have b_j , an example on pressure, what speed



Figure 3.12 Location of EP expression of or or in Fart Deve March. Bells Crimity. Filmills. Environment or very pr in 1995 blinds and edge



representation for Plant shows sengment task with setomatic water level groups and the hadigment senath.

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6.3 Searted Resource

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In order to better exergence the difference on the shape of swaggroup and natural $\ensuremath{\boldsymbol{\sigma}}$





Figure 5.1 Reflectance-current of ortical and new gram on the spectral wavelength line 350 are to 1760 can be Oct. 19, 1996



Figure 4.1 Exhibitions covers of enterlisted morganis in the special varieties the 350 cm to 1130 em to Oct. 23, 1996



Figure 4.3 Endinteror numer of critical and surveyors on the spectral wavelength Soo 250 cm to 1150 pps to Not 29, 2907



Prove 4.4 Arthermore curves of satural and sangares on the operated wavelength than 350 accors 1000 macon May 30, 1997

relations come, with wiferous was considered with segacts of the execution of the same value of the same control for the same of the same

4112 Selection of Concentration bands

In which is which the bank for some Collecting Monomorally between support where and present and prese



Piger 4.5 Necession reference convex of employs (Culture parameters) at the date. Next that the the curves are alread strategic owner most to the special against



Figure 4.6 Nemerlood principators exercit of certain (2) plus developments of at deter. Note that the curver we almost adopted nurses superplus in spectral argume.

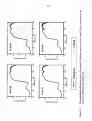


Table 6.1 Species (difference of restal and severages at 5 varietizingly someous or Sear date. The sense or we is presented. Definences are odoubled as

Worrlaugh 5600	Interest	Oine				
	kotos	13-19.66	72-23-96	23.28-07	25.55.00	
G5-415	Mon	4-1000 B-00000	2 2007	-0.25W 19.00ED	-2 C/N	
135-515	pero	-3.5884 80.10000	5750 (72746)	3 4544 (0.0003)	9 X148 (9 1797)	
63-63	and	-11221 (0.3892)	2.5179 (9.1206)	3 898 (9779)	4 K02T (9 1099)	
135-800	168	-6 0036 (0.3060)	12 6005 (0 6060)	-3 1511 (0 1207)	-17:5821 (0.5783)	
123-615	fine MR mores	(1.6)87 (6.3620)	11 11.77 (0.5281)	-1.3871 (0.6619)	.94042 (0.3129)	
390-1300	entire spectrum	6 3894 (6 2712)	13169	-1.7452 (0.0010)	4 1000 80 270 D	

Table 4.2 Namediani specimi dell'emier al unital and congress del marringle minrolle an lain dale. The calcius are se pomolesse. Dell'emies se solicitate de accordinate compani sellacione solicitate le provisioni mont reference.

Navierek	htmai	Diese				
2003	hotes	12-15-16	12.23-96	05/29-97	6536-10	
625-635	Me	6 6 6 9 5	9.8364	E 0001	4 602	
		(8 6306)	(0.030)	(6.0045)	QL 6196	
125-173	green	E €142	9 8673	E 6146	499	
		QL 6229 F	(\$1316)	(4.622)	(3.6404)	
625-615	red	4000	-11289	4 6055	-9 603	
		(8.2799)	(0.000)	(0.6400)	(0.6144)	
725-800	NE	1001	9.9663	4 (45)	-0 (92)	
		(0.0577)	(24990)	(2.6247)	(214H)	
925-615	fire NR recen	9 8 9 0 1	-0.0427	1 5777	0.1820	
		(9 1111)	(2240)	(0.0621)	(3.1841)	
250-1200	critica concresas.	9 8500	0.0006	9 8000	0.0000	

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4 1.2 Competion of Spectroshowers and NOAA ANSIES

The relationship between quantum between and PECA. ANYEE were enabled through the sel, one influent bands and door derived vegetaines indices. The presist are company in the follow section:

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200	100	Z O	÷	0.23		8	1	ş	9.31	
9 5	2.2	5.7	0.0	111	8.5	25		80	9 9	
110	3.0	8.2	85	22	500	85		-	8:	
222	25	2.5	2.8	22	100	111	製用	88	88	
		10 00 00 00 10 00 00 00			20 20 20 20 20 20 20 20 20 20 20 20 20 2		1	1	1	

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Charged at Appends 1. Each registion reviews uses a servings of fewer is first monogenesis from different angles. The upper and lower 90% confidence extensis are also plotted with the most corre-

Table 6.4 Consistent was you between questional content and 190A.8.AVSEX specied bank and derived vegetation indices. Date was askedded from consummation of surgeon, considered water on loss dates.

Brand	Веапусия	Stope	Inamege	ж.
3.	0.98 - 0.68 pm	979	7.80	0.434
R	075 - 105 µm	1.84	23.55	040
W	4	9.61	171	0.790
NUM	$\frac{D-2}{D-3}$	916	831	0104
SAVE	$\frac{H-A}{H+B+A} = 0 + L$	010	8.33	0.010

The collection of spectral expense curves of Flands represent one-be need as a spectral agreeme duelane. This destrous can set as determining the appropriate runther and sange of spectral baseds for vegetation distributions.

A DESCRIPTION OF THE PERSON OF

43.1 Insue Resident Drambers

Using the regional 30 is proof user the means and annular directions for each of the hand members it require new colorises of well 20.046 (344600-20.00046, 5996) may proceed upon the interview of the credit on a loan of a 1544 of 5. As a represent, we assumed of the high fined power workfully on the credit on the color in 1544 of 5. As a represent, which will have for the credit on the credit on the credit on the latter of the planet annulated. Amounts, On the other hand, the to advance of the credit of series, we then seen.

43.5 MLCV of Plan Information

The Mens Load Conflicted of Venesco do the near behand beed of the Eastest
Thi date was salarished for mobile for four land son hove to got (above, agriculture,
wellind, and market) is 14 delivers spread provingers. The MCCV and ga



Figure 4.8 Earther: This anapos on than levels of synthet excellation-dependence.
Integral there is recollected usin most of For Londerdole in 120 on (4),
300 to (4), 100 on (4), not 900 in (4) continuous.

Table 4.5 Size, bearing, more and resolut describe (\$10.) for the selected

Lend Door	No of Freds	Ami' (Kin')	Nerh	New Infrared		Thornal	
Type Type			New"	5D-	Nea"	5D*	
Cideno	110,010	334	20.66	20 82	156.92	428	
Agnesisee	1,300,000	1 800	44.10	25.22	13617	4.50	
Webset.	3,390,000	1,000	60.65	9.62	130-65	143	
Michan	13,800-900	13.698	SIAC	29.34	172.56	10	

Area was estimated with original produce 30 $m \times 30~m_{\odot}$

enters investigate and a service (CLD) reside to the Est Oxford Among Establishment

corresponding mentionins are listed at Table 46. The proptic of INECV, as a financial reposit are interesting, are photosis in Figure 49. As the probe of the projects middless, the prob of others, agricultural, vertical and external lister are 6.0 as, 300 as 1200 as, and 300 as.

4.1.1 MLCV of Thorsel Insu

This Move I and Coefficient of Visions for the decired best of the Lander TM data was calculated for each of the fair hast uniform types at 14 definence, part executions. The demonst based MLCV and concentrating scatterines with an Tell 4.7. The people of MLCV, as a function of spatial resolutions are platfed in Figure 4 (if An disa people of MLCV), as a function of spatial resolutions are platfed in Figure 4 (if An disa people of MLCV), as a function of spatial resolutions, up-outhwell, we fined and delite.

4.7.4 MLCV and Onlinear Sported Browlesses

These parks in the graphs of PE, CV spalar opening stronds in Markely for option senger members with words in America. He man as some, insure in Continging the Internationer semilistics. For except, the spraches of Period train in Simplified Agradient data from maximal an appropriate association of 20 to which any approximately that came of the registeries field in the same. When yound maximum associationally fortion of the registeries field, the same field to period any object of the same of the registeries of the same of the registeries field. The same field is appropriate field of the same field in the same of the registeries of the same of the registeries of the same of the registeries of the same o

Table 6.6 Ideas Local Coefficient of Viscoure (MLCV) for more releast head to other, agreeabore wished, and except land sortioner. Sold-number

Spatial Excellence	Lead StarCover Type					
(series)	Liben	Agre	Websi	Mouse		
30	2 6916	0.1048	9,3064	0.6428		
60	2490	1,596	9,3465	01475		
90	2 3132	1 9900	9.3340	1.000/9		
120	2 1962	2.2687	9,3189	10861		
250	23489	2 4963	9,3102	1089		
190	2 6179	2 6762	9,3107	11111		
240	17832	17979	9.3156	1.1323		
300	1 6015	3,5469	8,3388	1.097		
490	1,2850	2 4993	93497	1 0615		
600	1 6645	24079	9.3729	1066		
500	8 7621	2 1887	9.3662	0.9949		
1200	0.0310	17979	2 ent	01930		
1980	1 /041	1.6704	9.1518	0.9254		
1800			9.1134	0.0008		



when reproduct, welland, and printers land emboves

Table 6.7 Mean Leval Coefficient of Victories (MLCV) for framed band for other, agreed one, mediand, and natures land controver. Bold number rediction and rather bindies.

Spetial		Land R	ionCover Type	
Osens)	Obs	April	Volunt	Minor
39	0.0043	9 8030	6 0008	9 8833
40	0.0018	9 1003	0.0003	9.6661
99	0.0084	9 8354	E-000×	0.98%
129	01004	9 1210	6 0008	00036
150	0.0064	9 1215	6 0000	0,0048
110	0.0085	9 8293	6 0012	0,9065
393	0.0002	9 8349	6 0000	9886
300	6.6564	9.1368	0.0054	03099
450	0.0041	9,6394	6 0054	0.0213
800	6-0907	9.1043	6 0009	1120
900	0.0108	9.00%	1.0058	0.0058
1300	6,0010	940%	6.0043	0.0085
1300	0.0314	9.0014	6.0017	0.0096
1800		0.0095	E 0079	0.0096
2400		0.0002	9.6056	0.0995
3000		0.0009	9 8005	0.0000



States Andre States Street

Figure 4 30 Thornal band blans Local CoolScore of Variance (MLCV) for other periodices, well-and recover hard acciouse. aginatized Edda sagragand within a right pool. The epyropenic resolution, therefore is adopted by a prick in the MECN graph, which we can when the constituence of one to the downwise of the Edda and whose the probability of horing different pool valuation.

47.5 Coopean at New Infrared and Therand Spore Chicalature

compared for the final bank cover types (arbits, applications worked, and most set) in Figures 4 15 to 4 14, expectately

Earther apparent for appropriate models for treatment and market a 1200 and the market and the market and the solid to the forest form the market and the market for treatment and the market for treatment and the first and the market for treatment and and the market for treatment and the first and the market for treatment and the first and the market for treatment and an admirate part and 100 m and 400 m and 400 m, admirate gas 420 m and 400 m and





Figure 4.11 Mens Lorell Coefficient of Victimes (MLCVV) of the near softward and thermal bends for when lend continuer. Tricks of the near softward and thermal bends are focused as 45 and 200 as, propositively.



Figure 4.13. Stellar Local Conflictions of Favorance (FLCVF) of the once millioned and tharined learned benefit on Equations Confliction Produces of the once million and thorough benefit on Equation in 200 and 430 ps. preparation(b).



Figure 413 Mino Look Coefficient of Variance (MLCV) of the near editend selfdicted books for resided land sections. Process of the near enforced and distribute based on 1700 and 1500 m; respectively.



Pager 4.14 Mean Look Coefficient of Varience (MLCV) of the sear subseed and thermal heals for exceed tend anothers: Podes of the sear subseed and thermal heals set looked at 100 and 400 as, respectively.

43 Feld Tengenous and NEXT Measurement

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	Mar. Tal. Ibe	11.00	01.13	0 81	3.30	3.10	
or and regression	200	10.0	8.30	0.0	18.30	10.00	
Section of	100	1221	7.83	ē	365	9 7	
40/10	1.4	£	0	2			

2 7		3.10	0.889	ij
4.15		6.30	98.0	5
11.0		200	800	8
439	11.00	3.85	8	8
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Figure 4.13 Reviews reference curves for selected garanti-objects-bagfask, concerns, how real, grow, salchapt, wellst with 50 vigoration comp, were well 20% regardates every and word with 5% regions to consider measured by lend hald indicental.

distinct of the to come since and earth curvature. Concentral exhibitation was applied storrist the granistics determinates of the sandles energies. Figure 4.17 decises the gaantified Microbin length on December 9, 1990.

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Figure 4.16 Rain SOAA AVVISTA mags of December 4, 1956 well nice templay at the bed ground. The energy or present only distributed due to cost filtre and entil cristicion.





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Figure 6 IR Normalized difference registeres notes derived from NOAA-ANNER image for December 5, 1994.



December 8, 1996

431 Beams ST In Surface Tengeneura Method

The elementary between A_c/27 and SCIT water elementary copy is lower represent model and data from the 34 weather statements from date. The regression coefficients A and 8 of Equation 3.11 and the coefficients of discussions (r) was lasted in Table 4.9.

Table 4.9 Confidence A and X of the energy belong experient, and the confidence of determination (*) from the representations and set (\$2,77 or (\$2,47)).

Dete	Α		r
Dec. 1569	-0.48	926	0.64
0 May 1110	-0.75	079	0.80
12 Pec 1992	-0.17	0.64	0.69
11 Apr. 1990	44	0.31	0.74
Mean	.040	8.45	
Sel Sev	1.6300	4.9797	

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Figure 4.23. NSW) and dispert comprehense (File-star) and dispert programme of Files.



Figure 6.21 NOVI not sedireties temperature 6-licenser Cla - TiQ edimonting for the solivinal ground objects procured in the Edd.



Fig.RC 4.74 NOV not report to containing the fall advantage ground object measured to the field.



Figure 4.25 Salditer derived seemalored diffusions suprastice orders (HDW) we disperal method congression discension (HDFV) for several lead analytypes: Agraphium, when, and south any discrete common of the HD DBFV shought.

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Table 416 ESTV, NOVLant weighting factors for the right solected land contraver on Dec. 5, 1996

Land Cover Type'	DSTV	NOVE	Ψ,	**	*)
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Barrer and Other Land	38 4907	0.1964	6-0000	9 8800	1 0000
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Blotwood Forme	15 6545	9.3994	0.5685	0.3063	0.1256
Margoria Sarany	E3 0074	0.3836	0.1900	0.6643	0.0086
Potelando	14 5082	0.7961	6-6832	0.6334	9 2664
Day Proper	18 1054	0.606	6.7515	-0.0066	9 2429
Corne Swanp	15 7626	0.7366	6.7120	0.90%	9.7904

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Figure 4.36 Statistise deviced and ground based date beyond sed the extraheless of ET or the peopless information system.

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traditional (Premise) method at 11 wouther stations on the five degrees observe in Figure 4 FT. Their edissionable conclusioners or

where D.C., or the remain continue method D.T. and D.T., or the Principle method D.T. The correlation spellional does not reducte a strong relationship between the

remote seeing ET and the anchoro method ET. However, after a close impaction of the more JECS (by the Wester States, 25° 12° N, 80° 32° W). Scann JECS was bread at the continue are of the Everylades National Park adjacent to the Bonda San. Does or the less relieved arthropass of water, 2015 deployed NOVE values below pass that produced VMC values for IPCS much lower than the cross coefficient used for management memory tradepoint ET calculation. The microsolus of neutre serving ET and the tradecoral motion ET was re-evaluated evaluating the first DEES assists, and the

$$\mathrm{ET}_{\mathrm{dist}} = 1.009 \; \mathrm{ET}_{\mathrm{trans}} \circ 0.000, \qquad \qquad e^{\alpha} = 0.755, \, \alpha = 50$$

The condution confluent was agriduant to believe a preserve state code between the ET minimal by the resolutionality and produce smaller towards of the resolutional analysis and the state of the state

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Tables 6.13 and 6.12 compare the remote proving marked colorated RT and the lydinature
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Figure 4.27 ET estimated by the remain serving method various ET estimated by the instifation of Greening method on the five days. ET values is the Juy Tie varieties state in EEEE on the Fire dates were absorbed.

Table 4.11 Equipment recorded ET and remote sensing estimated ET for sampless manks associated for days

Eute	Epsimeter ET (morking)	Penner YV _e (mn/dq)	NOVE	PRIV	VMC	E S ST (moling)	Enw 00
00-11-1954	314	3.98	034	1104	0.90	140	4.70
95.36-1956	533	5.45	0.34	13.42	0.83	4.53	-149
05-04-1997	3.30	532	NA'	NW	-		_
05-30-1997	5.50	6.00	0.38	1132	0.17	574	212

- Street construence

Table 4 (2 Equipment recorded RT and records seeining estimated RT for cartacl earth on first days

Date	Eprineral ET (monito)	ET, (mn/kg)	MENT	DETV	YMC	R S BT (mm/ky)	Pio Pio
08-18-1704	NX.	511	0.33	11.00	6.09	933	-
00-34 (19N	6.05	3 48	0.33	1239	2.94	5 10	-36 (4
C8 23.19KT	4.06	532	9.16	12.54	0.54	3 64	-33 %
05-56-1987	4.83	6.96	935	12.67	140	4.60	-170

" no brimeter record available.

As the rest in Table 11 and 11 Ω_c correspond reference sample and power model for a 10 Ω_c correspond from the control power of t

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determining VMC at each pool. The rest and day land VMC were assumed to be 0.50 and 0.00, neaponizedy as the high and low around ET to proceed ET copies for the senter year. Because, NMC should be determined at least on a seasonal heals. Average mostly mass of sexual to prosted ET in a long term lymeror rooty from much tree in seath

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Regional ET or mosts Flimin was calculated by using the VMC and the province ET begins in the GIS. She ET contact map or plotted in Figure 4.29. ET contact map of

List Glenchier (Service as on the Arch Configure 1) and a significant training and the Configuration of the Config





Figure 4.28. Contour map of reponal RT or annih Florida by revote sensing metrod. May 20, 1781.





Figure 9-26 Contour map of regional ET in acuta Florida by inexpolation of auditoria ET method on May 30, 1997

CHAPTER I

51 Condumos

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Figure A3-1 Special influences some for loss oils (Querren virginum). Bold Socials in in the mean reference. The fine free popular and losser lofts worldware externals.



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Figure A1-5 - Special reflectance serves for Profe tree (Missionic pulsaparamist). Bold fine for a the error reflectance. The dist fines are upper and lower 00% confidence meanure.



Figure A.I.-4 Special reflectance review for econologica (Therdypte consciolations).

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Figure A.1-0. Special Education data for a larger modelphine (Landisphine commissionment) letter. Build face line as the mean reflectance. The effect lens are upper and leaves TON transference internals.



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Figure Al-1 Sportic (Whitman surves for superson (Sauderson). Fold for fire is the man influence. The fire loss are upper and leave 10% typifoloop intervals.



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Figure Al-12. Special reference enver for dry road and. Bold fact for a do near reference. The fels lines are upper and lower 90% confidence inpurels.

APPENDIX 2

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